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Title: METHODS OF TREATING CACHEXIA

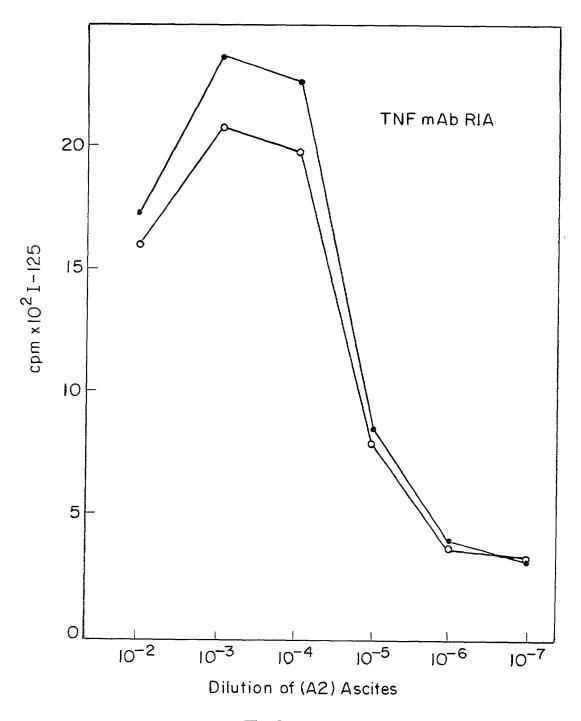


FIG. 1

inventors. Julining Le, et ut

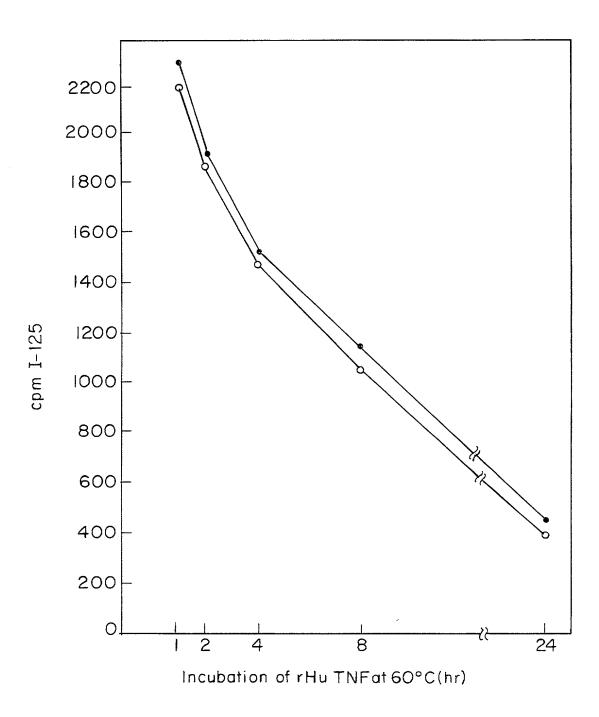
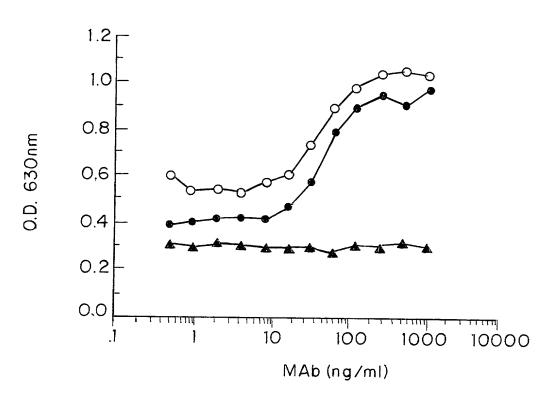


FIG. 2

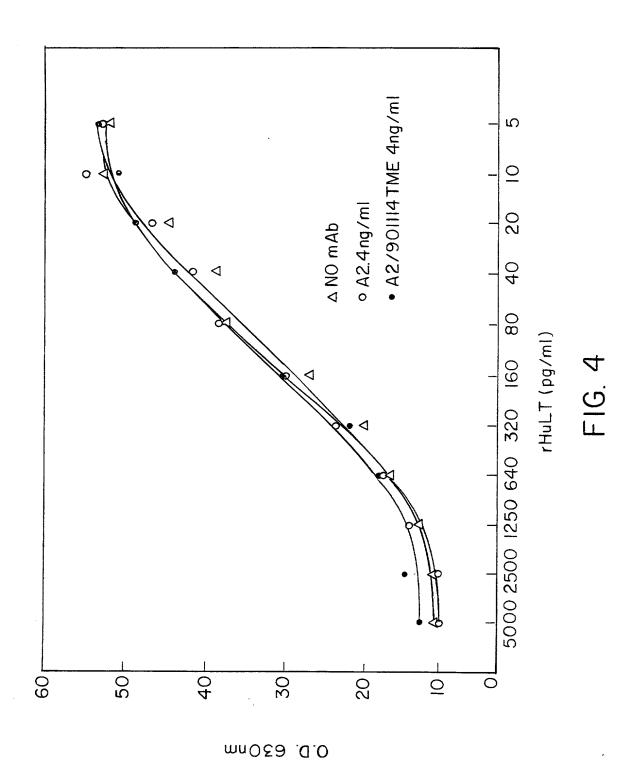




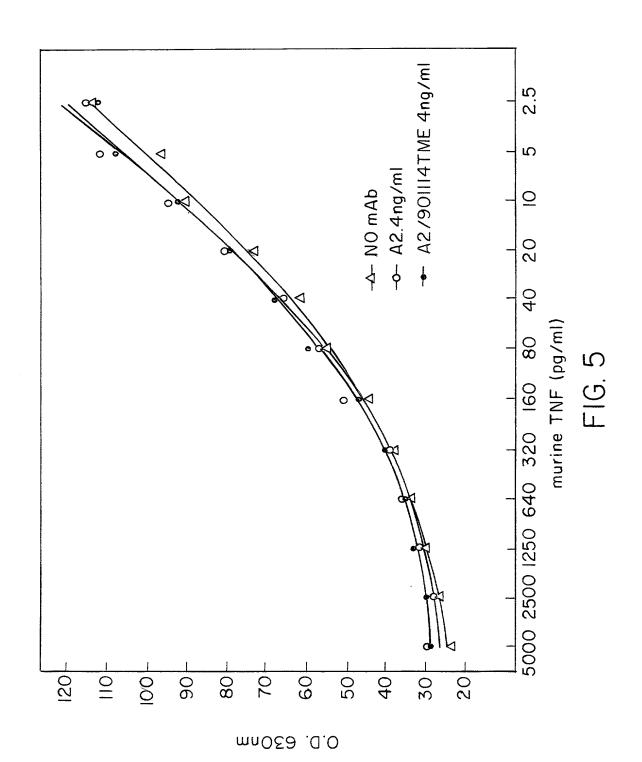
- Natural Human TNF
- Recombinant Human TNF 0
- Control

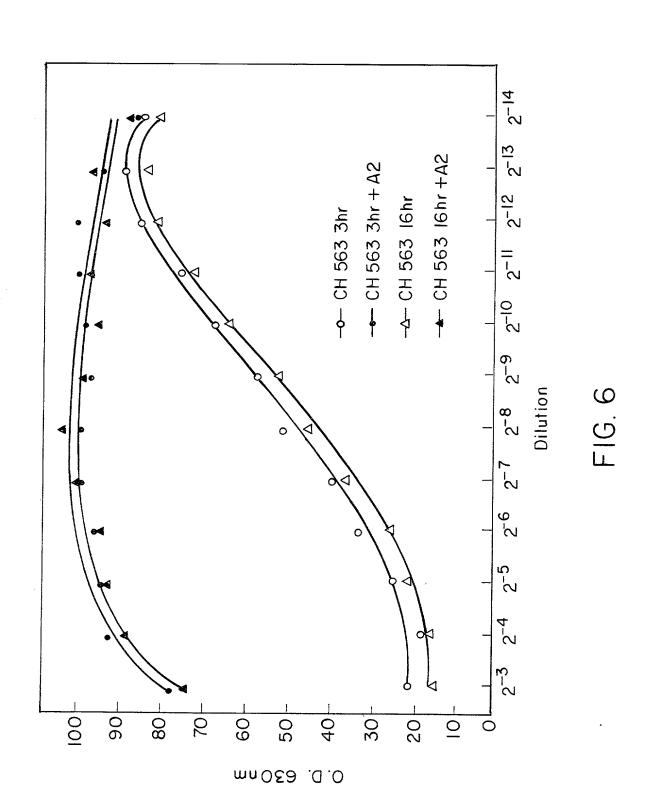
FIG. 3

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Inventors: Junming Le, *et al*



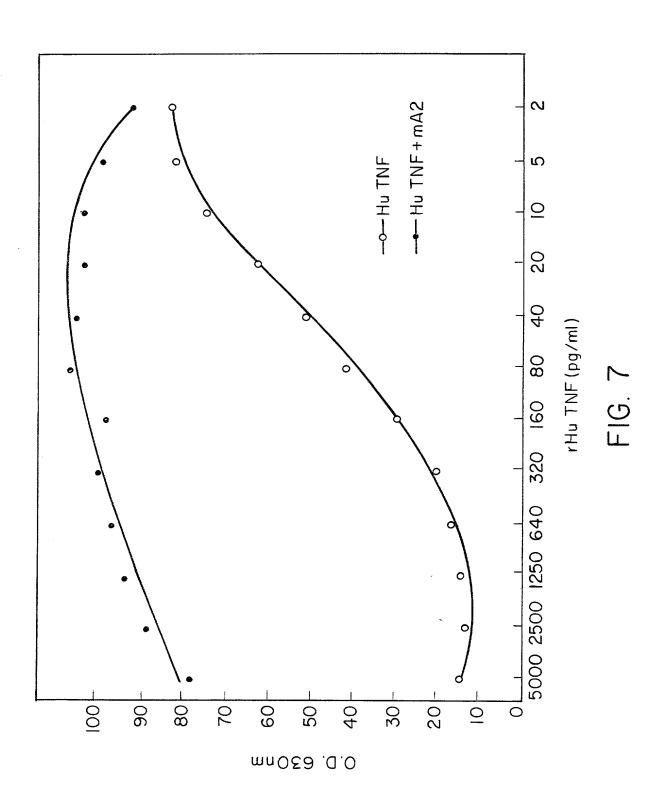
Title: METHODS OF TREATING CACHEXIA
Inventors: Junming Le, et al





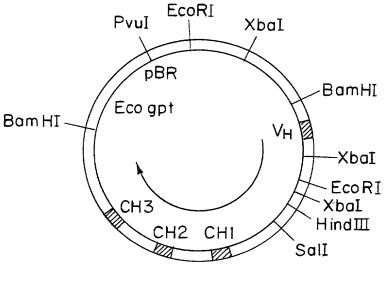
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Docket No.: 0975.1005-017

Title: METHODS OF TREATING CACHEXIA



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FIG. 8A

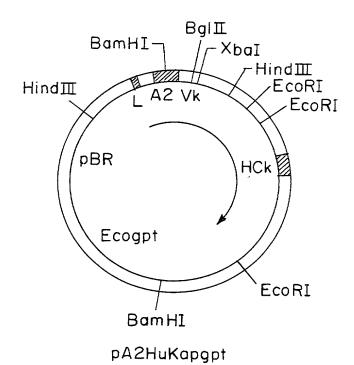


FIG. 8B

Inventors: Junming Le, et al

Many Speed Man Street Man Hang Hang Man

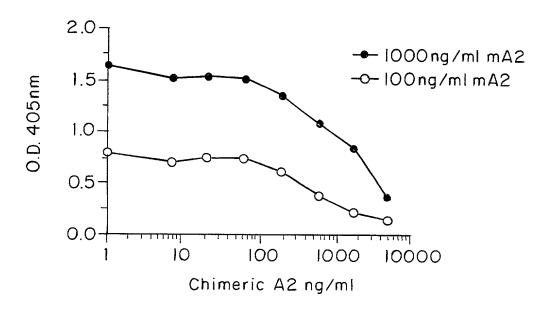
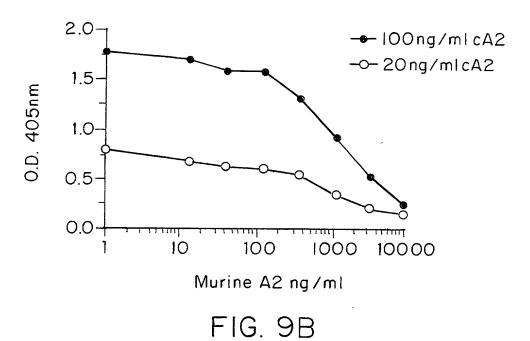


FIG. 9A





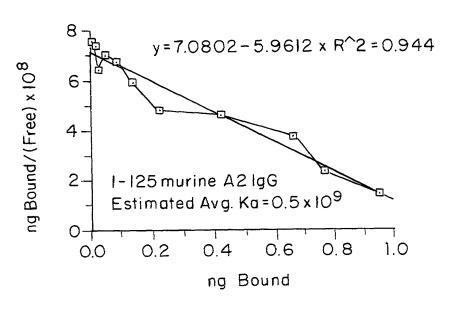


FIG. 10A

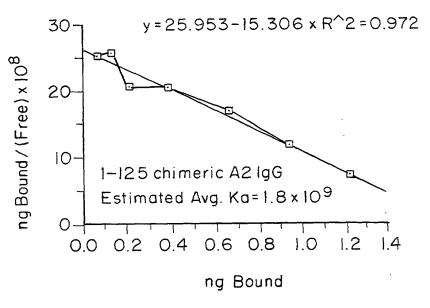


FIG. 10B

Inventors: Junming Le, et al

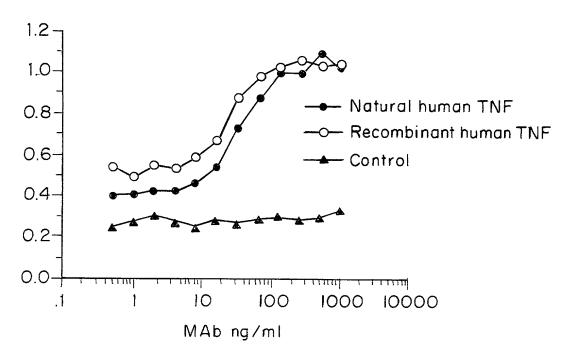


FIG. 11

and the state of t

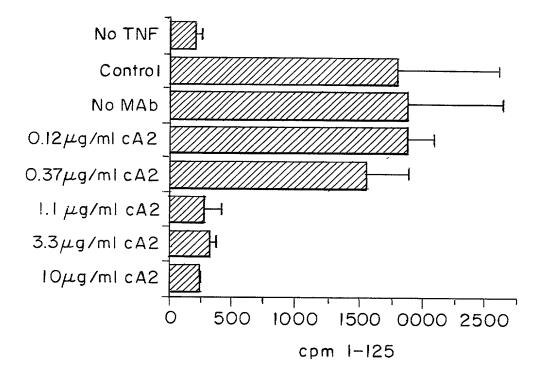


FIG. 12

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Title: METHODS OF TREATING CACHEXIA Inventors: Junming Le, $\it et al$

Pro	G1y	Ser	Ile	Pro	ren	Asp	
Asn		Tyr	Thr	Ser	TYr	Pro	
Ala	Ala Asn	Ile	His	Lys	Ile	Arg	
Val Val	Leu Leu	Leu	Thr	Ile	Pro	Asn	Leu
Val	Leu	Ser Glu Gly Leu Tyr Leu Ile	Leu	Ala	G]u	Ile	Ala
His	Ala	Leu	Val Leu	Ser	Trp Tyr	Glu	Ile
Pro Val Ala His	Arg Arg Ala Asn Ala	${ t Gly}$	Val	ren	Trp	Ala	150 Val Tyr Phe Gly Ile Ile
Val	Ala	Glu	His	Asn Leu	Pro	Ser	Gly
	Arg	Ser	Thr	Asn	Lys	Leu	Phe
10 Asp Lys		Pro	Ser	Val	Ala	Arg	$\mathtt{T}\mathtt{y} \mathtt{r}$
	30 Asn	50 Val	70 Pro	90 Lys	110 Glu	130 Asp	
Ser	Leu	Val	Gly Cys	Thr	Ala	G1y	Gln
Pro	Trp	Leu	$_{ m G1y}$	Gln	G1y	Lys	${\tt Gl}{\tt y}$
\mathtt{Thr}	Gln	Gln	Gly Gln	$\mathrm{T}\mathrm{yr}$	G1u	G1u	Glu Ser Gly Gln
Arg	Leu	Asn		Ser	Pro	Leu	
Ser	Gln	Asp	Lys	Val	Thr	Gln	Ala
Ser	Ala Glu Gly Gln	Glu Leu Arg Asp	Leu Phe	Ala	Glu	Phe	Leu Asp Phe Ala
Arg Ser	. Glu	. Leu	Leu	Ile	Gln Arg	· Val	Asp
			Val :	. Arg		121 Gly Gly Val	Ten
1 Val	21 Gln	41 Val	61 Gln	81 Ser	101 Cys	121 Gly	$\begin{array}{c} 141 \\ \text{Tyr} \end{array}$

FIG.

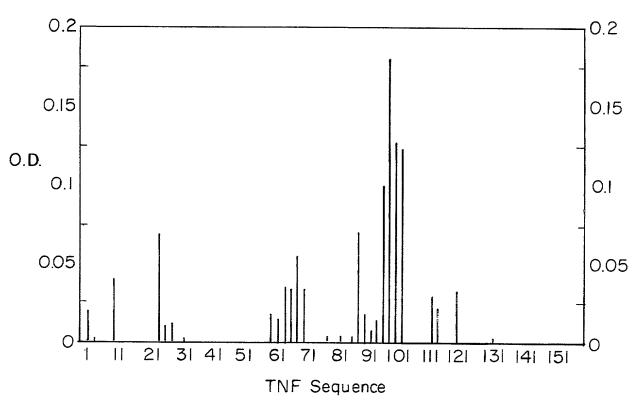


FIG. 14A

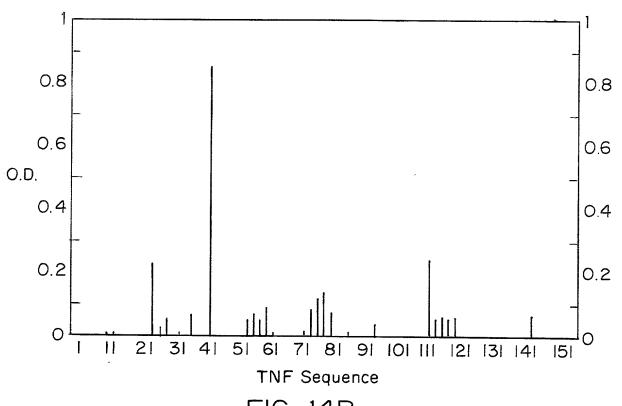


FIG. 14B

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Pro GlyAsn Arg Arg Ala Asn Ala Leu Leu Ala Asn Ala Val Val His Ala Val Pro LysAsp 30 Trp Leu Asn 10 Ser Pro Gln Leu Gln Thr Arg Ser Gly Ser Glu Ser Ala Arg Val Gln

Ser Ile Len TyrLeu GlyGlu Ser Pro Val 50 Val Leu Gln Asn Asp Glu Leu Arg Val

Ile Thr His Thr Leu Leu Val His Thr Ser Pro 70 Cys G1yGln G1yLys Phe Leu Val Gln 61

Pro Ser LysIle Ala Ser Val Asn Leu Leu Lys90 Gln Thr Tyr Ser Val Ala Ile Arg Ser 81

Pro Glu TyrTrpPro Lys Ala Glu 110 Ala Gly Glu Pro Thr Glu Arg Gln Cys 1101

Leu

Tyr

Ile

Pro Asp Asn Arg Ile Glu Ala Ser Leu Arg Asp 130 GLyGlu Lys Gln Leu Phe Val G1y

121

Leu Ala Ile IleTyr Phe Gly Val 150 Leu Asp Phe Ala Glu Ser Gly Gln 141 Tyr

15 FIG. Docket No.: 0975.1005-017

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Inventors: Junming Le, et al

AspIleLeuLeuThrGlnSerProAlaIleLeuSerValSerProGlyGluArgValSer GACATCTTGCTGACTCAGTCTCCAGCCATCCTGTCTGTGAGTCCAGGAGAAAGAGTCAGT

TTCTCCTGCAGGGCCAGTCAGTTCGTTGGCTCAAGCATCCACTGGTATCAGCAAAGAACA PheSerCysArgAlaSerGlnPheValGlySerSerIleHisTrpTyrGlnGlnArgThr AATGGTTCTCCAAGGCTTCTCATAAAGTATGCTTCTGAGTCTATGTCTGGGATCCCTTCC AsnGlySerProArgLeuLeuIleLysTyrAlaSerGluSerMetSerGlyIleProSer

AGGTTTAGTGGCAGTGGATCAGGGACAGATTTTACTCTTAGCATCAACACTGTGGAGTCT ArgPheSerGlySerGlySerGlyThrAspPheThrLeuSerIleAsnThrValGluSer

GAAGATATTGCAGATTATTACTGTCAAGAAAGTCATAGCTGGCCATTCACGTTCGGCTCG ${\tt GluAspIleAlaAspTyrTyrCysGlnGlnSerHisSerTrpProPheThrPheGlySer}$

GGGACAAATTTGGAAGTAAAA GlyThrAsnLeuGluValLys

16A FIG.

Title: METHODS OF TREATING CACHEXIA

Inventors: Junming Le, et al

 ${\tt GluValLysLeuGluGluSerGlyGlyGlyLeuValGlnProGlyGlySerMetLysLeu}$ GAAGTGAAGCTTGAGGAGTCTGGAGGAGGCTTGGTGCAACCTGGAGGATCCATGAAACTC

TCCTGTGTTGCCTCTGGATTCATTTTCAGTAACCACTGGATGAACTGGGTCCGCCAGTCT ${\tt SerCysValAlaSerGlyPheIlePheSerAsnHisTrpMetAsnTrpValArgGlnSer}$ CCAGAGAAGGGGCTTGAGTGGGTTGCTGAAATTAGATCAAAATCTATTAATTCTGCAACA $\tt ProGluLysGlyLeuGluTrpValAlaGluIleArgSerLysSerIleAsnSerAlaThr$

 ${ t HisTyrAlaGluSerValLysGlyArgPheThrIleSerArgAspAspSerLysSerAla}$ CATTATGCGGAGTCTGTGAAAGGGAGGTTCACCATCTCAAGAGAGATGATTCCAAAAGTGCT

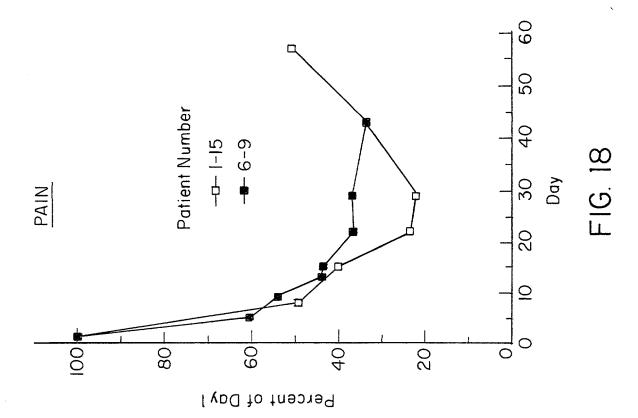
 ${\tt ValTyrLeuGlnMetThrAspLeuArgThrGluAspThrGlyValTyrTyrCysSerArg}$ GTGTACCTGCAAATGACCGACTTAAGAACTGAAGACACTGGCGTTTTATTACTGTTCCAGG

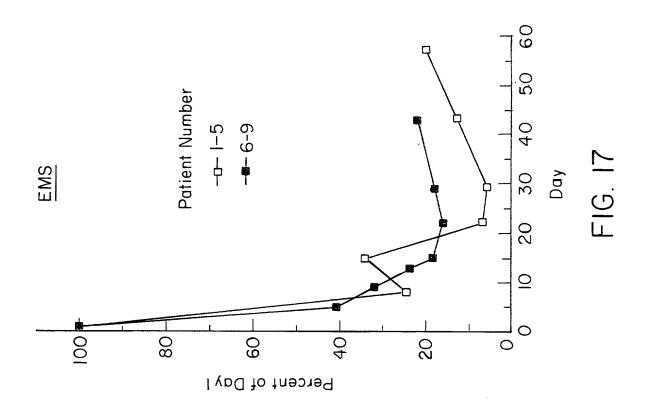
AATTACTACGGTAGTACCTACGACTACTGGGGCCAAGGCACCACTCTCACAGTGTCC ${\tt AsnTyrTyrGlySerThrTyrAspTyrTrpGlyGlnGlyThrThrLeuThrValSer}$

FIG. 16B

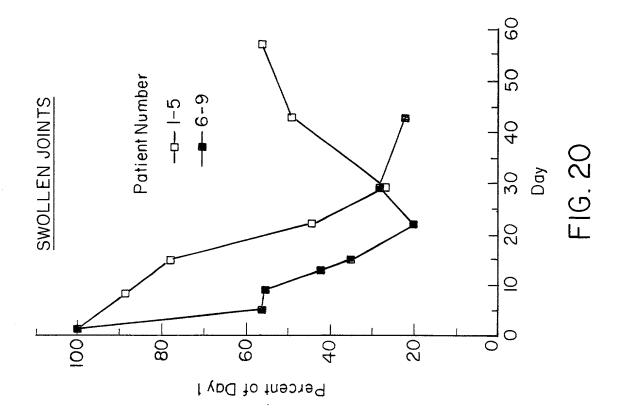
Docket No.: 0975.1005-017

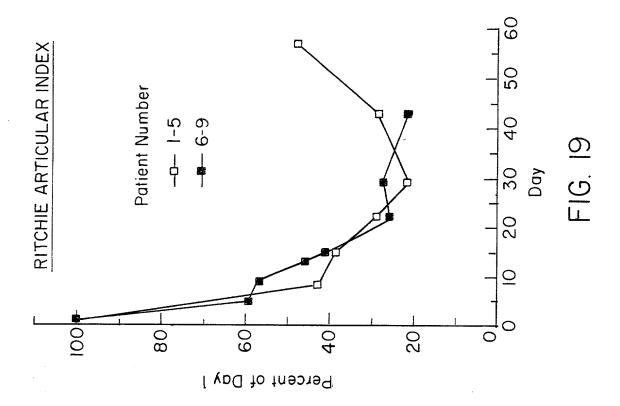
Title: METHODS OF TREATING CACHEXIA



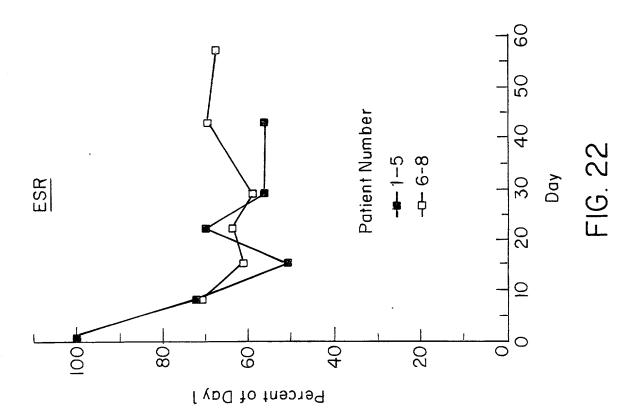


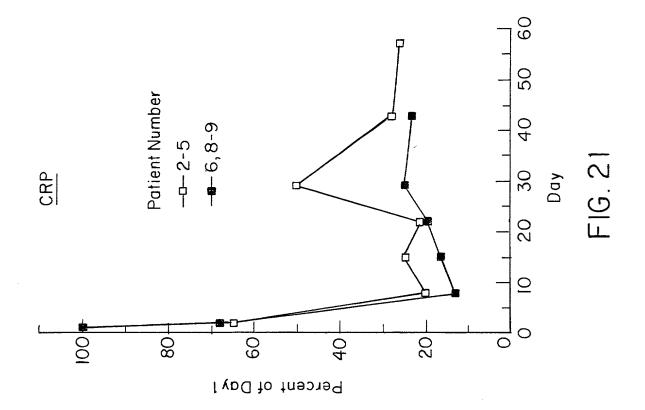
Docket No.: 0975.1005-017
Title: METHODS OF TREATING CACHEXIA
Inventors: Junming Le, *et al*











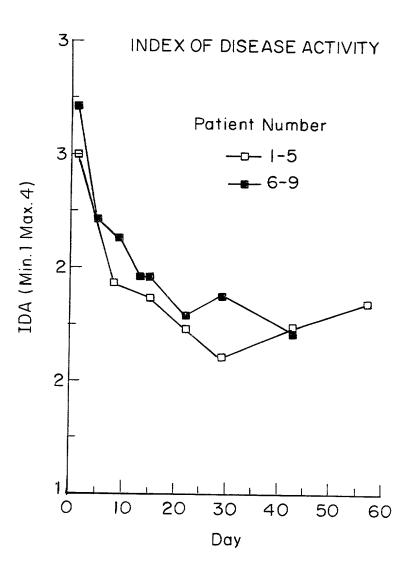
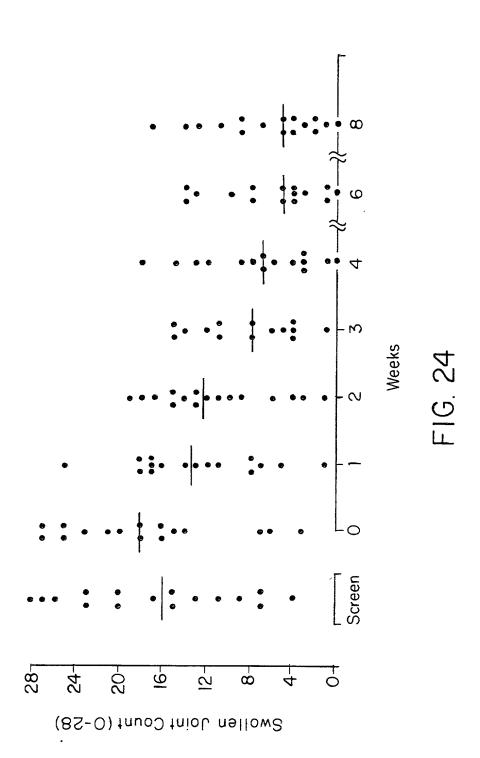


FIG. 23

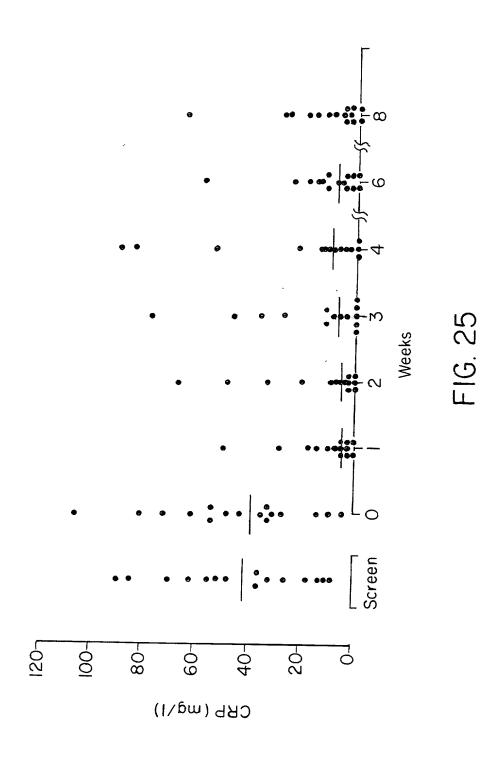
Docket No.: 0975.1005-017

Title: METHODS OF TREATING CACHEXIA

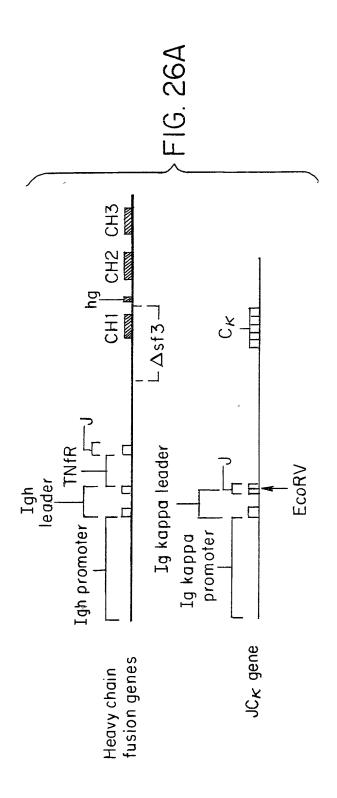


Docket No.: 09/5.1005-01/

Title: METHODS OF TREATING CACHEXIA

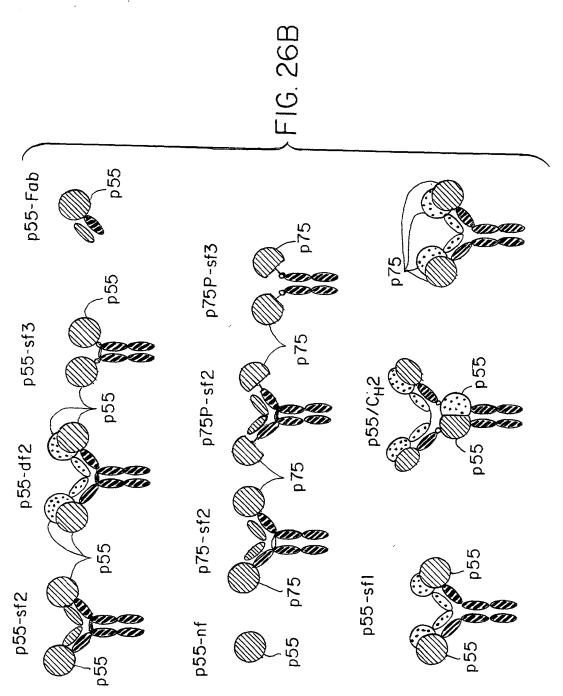


Docket No.: 0975.1005-017 Title: METHODS OF TREATING CACHEXIA Inventors: Junming Le, *et al*

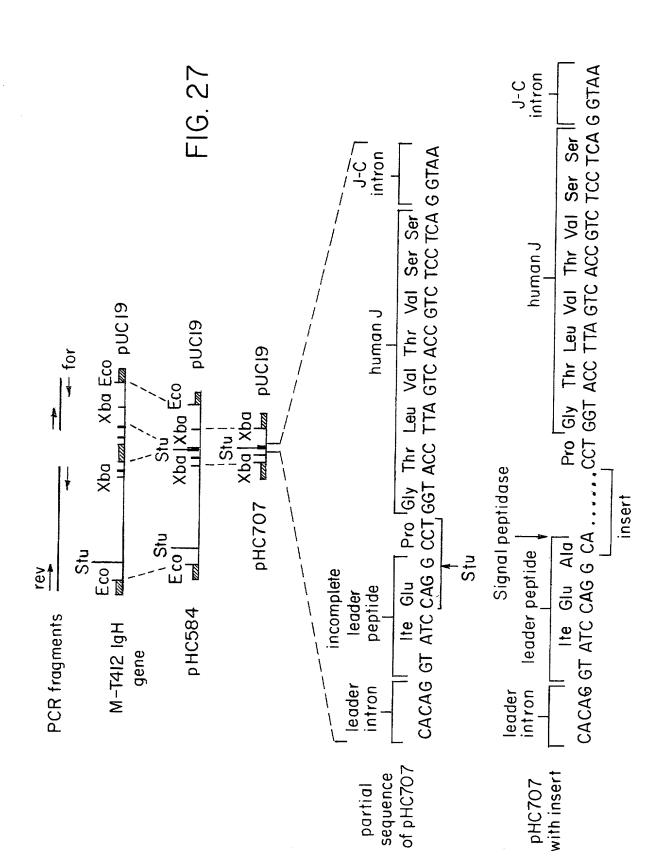


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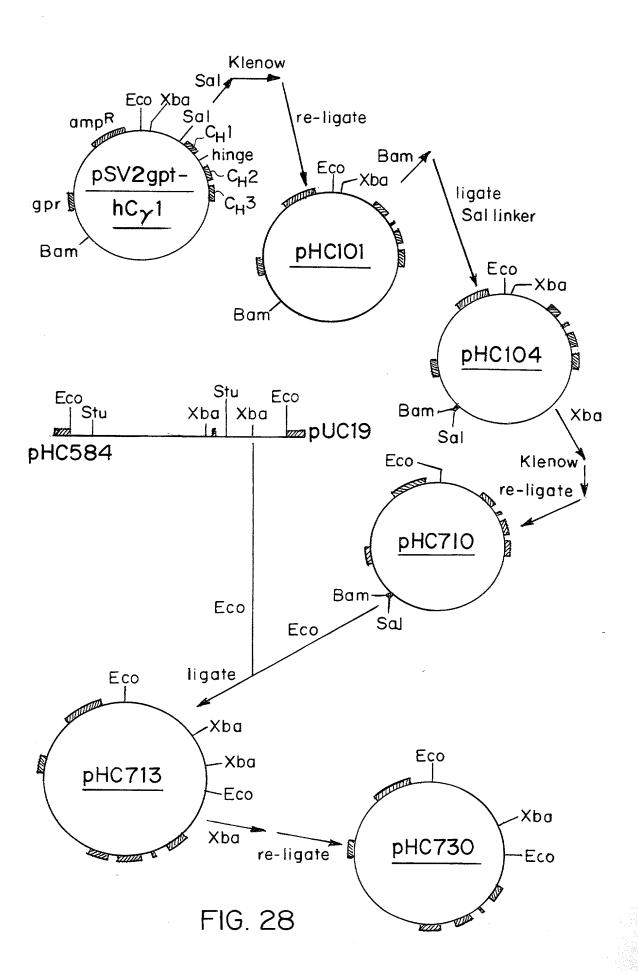
Docket No.: 0975.1005-017 Title: METHODS OF TREATING CACHEXIA



Docket No.: 0975.1005-017
Title: METHODS OF TREATING CACHEXIA



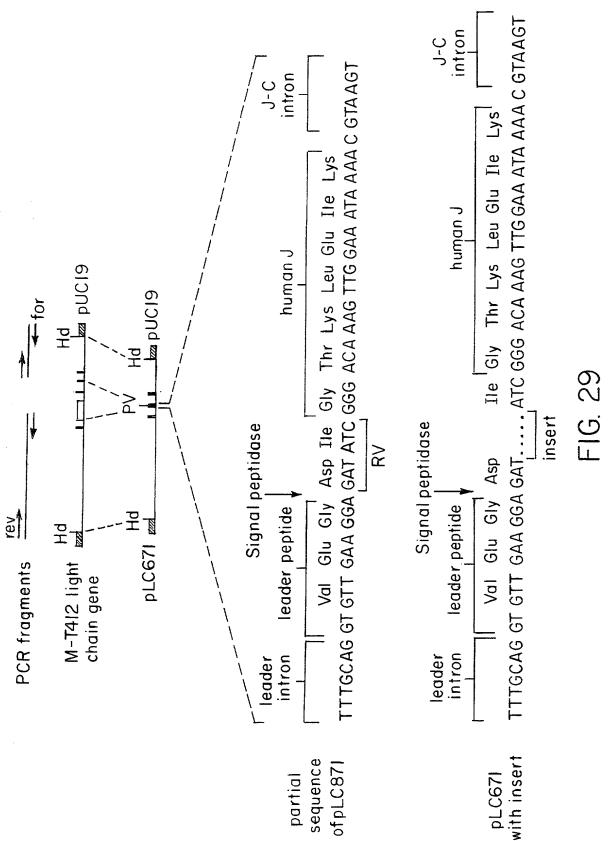
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Hd ligate ampR Bam Sal linker Kpn⁺ H_d ligate pSV2gpt-Kpn-blunt hC_K PCR-trag. pLC95 Hd Kpn-RV Bam Sal pLC327 Kpn Bam Hd RVHd Sal pLC671 Hd Ήd ligate Нd -RV KpnpLC690 -Hd Bam

FIG. 30

Sal

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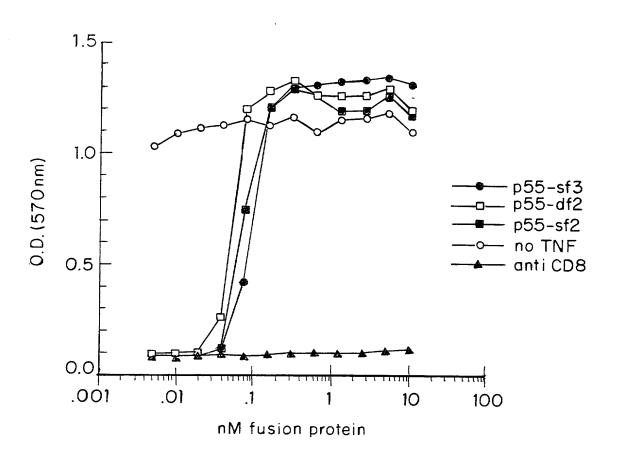


FIG. 31A

with the first than the second throught with the second through the second throught with the second throught with the sec

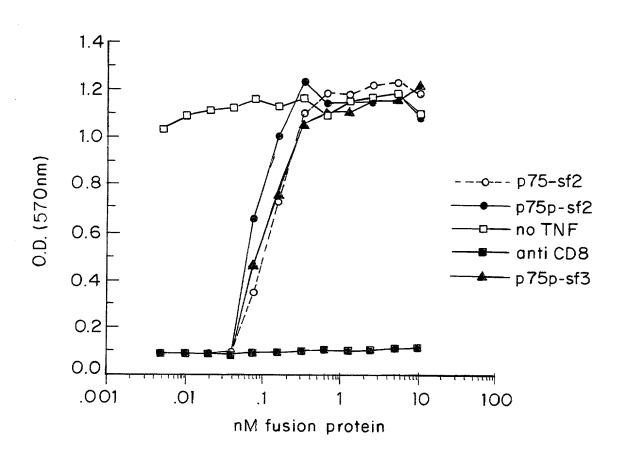


FIG. 31B

Docket No.: 0975.1005-017 Title: METHODS OF TREATING CACHEXIA

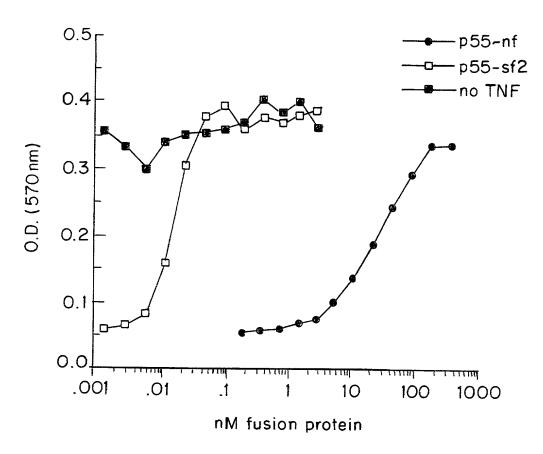


FIG. 31C



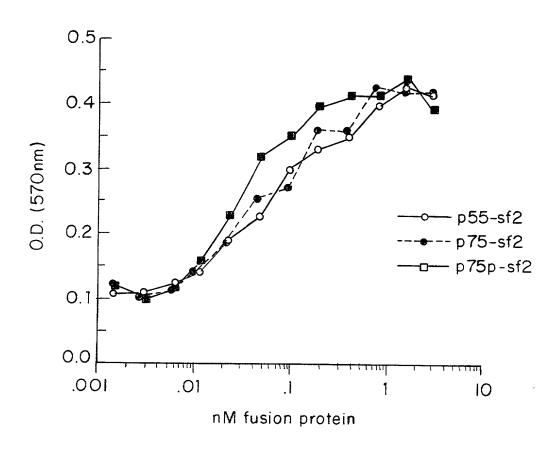


FIG. 32

6000 5000 p55-df2 p55-sf2 4000 p55-sf3 cpm bound 3000 2000 1000 anti-CD4 100 300 400 600 500 TNF conc. when added (pm)

FIG. 33A

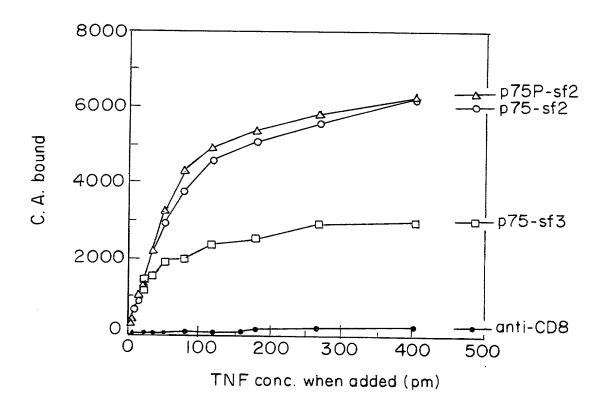
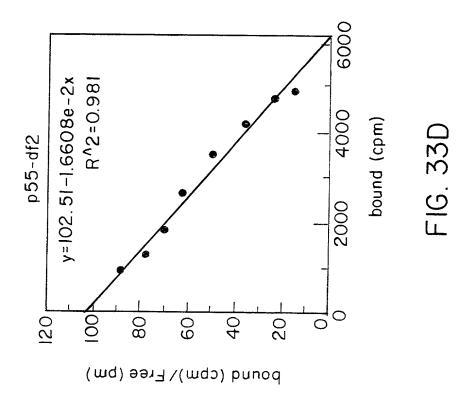
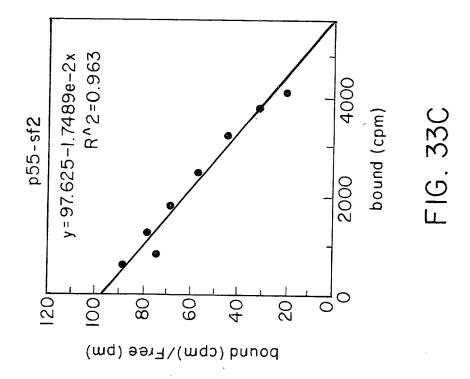
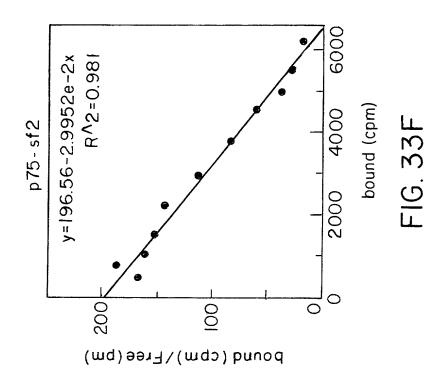


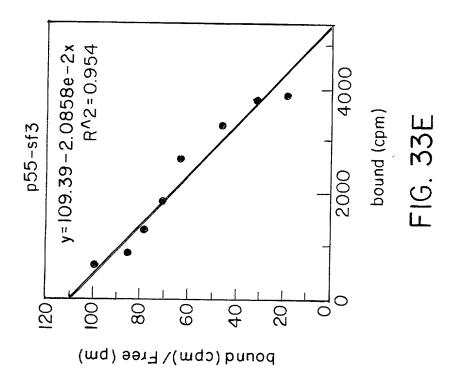
FIG. 33B

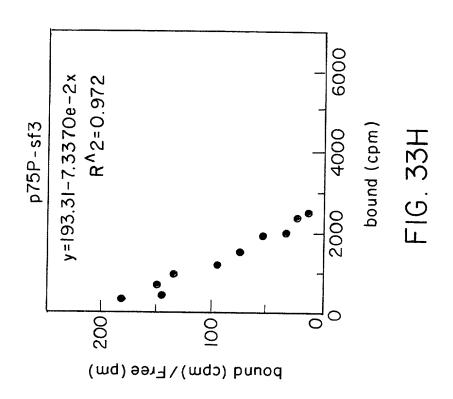


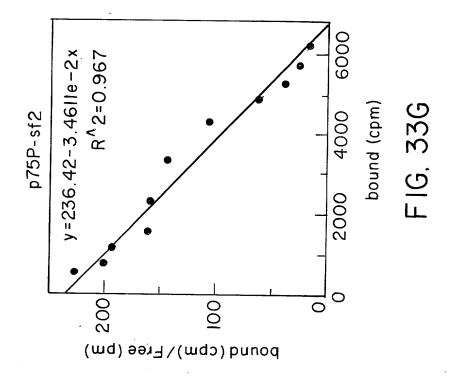


Docket No.: 09/5.1005-01/ Title: METHODS OF TREATING CACHEXIA Inventors: Junming Le, *et al*

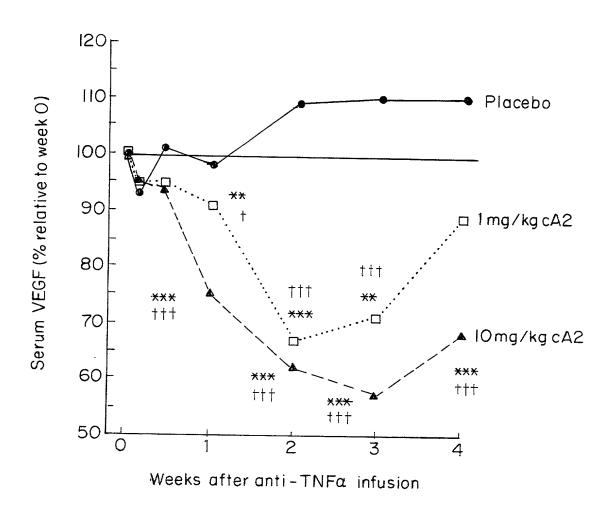












* p \leq 0.05, ** p \leq 0.01, *** p \leq 0.001 *versus* pre-infusion to p \leq 0.05, to p \leq 0.01, to p \leq 0.001 *versus* change in placebo group

FIG. 34